NASA/GODDARD SPACE FLIGHT CENTER

REQUEST FOR TASK PLAN / TASK ORDER

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SIGNATURE OF CONTRACTING OFFICER	Carlo Carlos Carlos	7 22	DATE		TYPED NAME	OF CONTRACT	ING OFFICER	1	
CONTRACTOR'S ACCEPTANCE:				2.0					
AUTHORIZED SIGNATURE				DATE					
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PERFORMANCE SPECIFIC	ATIONS:						
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APPLICABLE DOCUMENTS	S:						
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TASK END DATE:	9/12/01						
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PERFORMANCE STANDAR							

FINAL DELIVERY DESTINATION (NAME, BLDG, ROOM):

Raymond L. Granata, building 23, room W351

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REQUEST FOR TASK PLAN / TASK ORDER

Contract NAS5-99124

Task: 329

Systems Engineering Team Services

INTRODUCTION

This effort is in support of AETD, STAAC and other directorates as required systems engineering activities. The goal is to improve the effectiveness of overall AETD, STAAC and other directorate systems, including information systems. This goal will be achieved by working jointly with the Government to develop and promulgate strategies and initiatives selected to optimize overall system architectures and capabilities with respect to user and institutional requirements.

This work is to be accomplished through the activities of the Systems Engineering Team (SET). The SET functions as a multicontractor team providing expertise in systems engineering, systems management and technology management. This effort is described in detail in the following technical areas.

- 1. Systems Engineering Services
- 2. Systems Management Services
- 3. Technology Management Services

SECTION 1 -- ASSUMPTIONS

For the technical areas, the following assumptions apply unless otherwise stated.

- 1. Period of Performance September 13, 2000 to September 12, 2001 for all activities except as noted.
- 2. Non-local travel may be required for some technical areas.
- 3. There are no significant risks on these activities.

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SECTION 2 -- WORK DESCRIPTION

2.1 Systems Engineering Services

WORK DESCRIPTION:

The contractor shall provide services in support of the following aspects of systems engineering, including but not limited to:

- Developing high level management plans, operational and system concepts, performing functional analysis, and conducting trade studies among alternative concepts. Where appropriate, defining architectures (including data and information system architecture) and models to support evolving systems engineering and management process. Evaluating all such concepts, architectures, and models against end-to-end goals and objectives.
- Interfacing with NASA/GSFC customers and other NASA contractors to provide indepth technical research, analysis, and evaluations to produce operations reports, develop and document concepts, conduct functional analysis of requirements, and assess project and implementation plans.
- 3. Facilitating the infusion of automation technology and knowledge management into missions and projects conducted at GSFC. This effort includes continuation of systems engineering activities related to the Collaborative Engineering Environment (CEE) element of the Intelligent Synthesis Environment (ISE) Program.
- 4. Identifying and cataloging systems engineering services, products and tools, and comparing them to equivalent commercially available services and products to analyze the cost benefit of using various degrees of government and commercial providers. This effort includes the update and maintenance of the Tools Inventory database.
- 5. Promoting the dissemination of relevant information between individuals and key organizations by organizing workshops and conferences and publishing papers, brochures, and other documentation. This effort includes services for systems engineering activities in the International Council on Systems Engineering (INCOSE), the AIAA, Knowledge Management Consortium International (KMCI), and SpaceOps symposia.

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2.2 Systems Management Services

WORK DESCRIPTION:

The contractor shall provide services in support of the following aspects of systems management, including but not limited to:

- 1. Identifying specific initiatives to contribute to the achievement of AETD strategic goals, objectives, and long-range plans.
- 2. Applying cased based reasoning technology to the Reusable Experience With Case-Based Reasoning (CBR) for Automating Lessons Learned (RECALL). This activity will continue management of the RECALL system including maintenance and addition of new lessons learned
- 3. Applying artificial intelligence (AI) technology to reduce the cost of operating multisatellite or nano-satellite constellations. Incorporating intelligent agents (IA) in the interface of ground monitoring systems such as Genie-Gensa.

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2.3 Technology Management Services

WORK DESCRIPTION:

The contractor shall provide services in support of the following aspects of systems management, including but not limited to:

- Obtaining information from selected individuals, projects, missions, and
 organizations to develop a map of overall user needs and requirements. Organize,
 synthesize, and aggregate these overall requirements and needs and compare with
 various NASA/GSFC and commercial services and products. Develop technology
 roadmaps to evolve key capabilities.
- 2. Participating with the NASA Technology Planning and Integration Office (NTPIO) in the collection, evaluation, and selection of technology capabilities and products to be matured for future NASA missions.
- 3. Maintaining, populating and upgrading the Systems Engineering/Technology Management Database to support the brokering of mission and project needs with enabling technologies, processes and tools.
- 4. Conducting technology and mission needs data collection which consists of the following: a) Collect and characterize emergent technology efforts in order to determine the applicability to mission needs. b) Establish and maintain information exchange relationships with domain experts and user customers. c) Populate a centralized technology management database. d) Establish an expert team that knows how and who to contact for quality technology data. e) Develop and maintain customer satisfaction data.

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Task: 329

PERFORMANCE SPECIFICATIONS

Roles and Responsibilities

This task is collaborative work with the government. A System Engineering Team (SET) Technical Area Owner (TAO) will monitor this work. The SET is led by the TAO and is composed of selected technical and management specialists (contractor and civil servants) who are individually assigned in accordance with their expertise to support the TAO in planning, preparing for, and implementing the work. The SET also has access to other corporate team resources if the need arises.

Evaluation Events and Criteria

The SET shall meet periodically at which time the work shall be evaluated by the TAO against schedule, quantity of deliverables, quality of deliverables and cost of the work performed.

It is expected that the SET will meet weekly or at the request of the TAO to discuss progress of the SET activities.

The following metrics are established for this effort:

1. Comprehensive System and Technical reports:

Acceptable performance is that the ATR is satisfied that the material reflects the proper level of technical expertise and meets the objectives of the activity.

2. SET meeting activities:

Acceptable performance is that the ATR is satisfied that the contractor supported the meetings with the proper talent and adequately participated in the meeting activities. Also, that they recorded the group activities accurately and provide timely disseminated the minutes.

3. Technical Status Reports:

Acceptable performance is that the ATR is satisfied that the material accurately reflects the monthly activities and is timely disseminated.

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4. Professional Papers presented:

Acceptable performance is that the ATR is satisfied that the materials presented are technically challenging, relevant to the activities of this task plan, and done in a professional manner.

5. Analyses Performed:

Acceptable performance is that the ATR is satisfied that the studies performed meet the requirements of the activity, are completed in a timely manner, and reflect the level of technical professionalism required.

6. Software Products:

Acceptable performance is that the ATR is satisfied that the Software Products meet or exceed the performance specifications, are delivered in a timely manner, and are properly documented.

7. Presentation material:

Acceptable performance is that the ATR is satisfied that the materials are accurate, timely, and properly represent the technical subject.

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SCHEDULE OF DELIVERABLES

a. Comprehensive Systems and Technology Reports

Quarterly

b. Systems Engineering Team Meetings

Weekly or as necessary

c. Technical Status Reports

Monthly, COB 15th day of each month

d. Cost Reports.

Monthly

NON-LOCAL TRAVEL

The following non-local travel has been identified for members of the SET:

a. Annual Knowledge Management
World Summit and Exposition (1 person)(4 days)

New Orleans, La December 2000

b. INCOSE Winter Workshop (2 people)(5 days)

Mesa, AZ January 2001

Other non-local travel may be requested by the TAO on an as needed basis.

GOVERNMENT FURNISHED PROPERTY (GFP)

The following software products:

- 1. CBR-Express Generator
- 2. CBR-Express Professional Author
- 3. CasePoint web server